

**Clean Copy of Amended Claims:**

Please cancel claims 12-32.

Please amend claims 6, 8-10 and 33 as shown below and add new claims 34-49.

A1  
6. (AMENDED) The corn plant of claim 2, wherein said plant further comprises a genetic factor conferring male sterility.

A2  
8. (AMENDED) The tissue culture according to claim 7, the cells or protoplasts of said cells having been isolated from a tissue selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

A2  
9. (AMENDED) A corn plant regenerated from the tissue culture of claim 7, wherein the regenerated plant is capable of expressing all the morphological and physiological characteristics of inbred line RBO1, representative seed of said line having been deposited under ATCC Accession No. \_\_\_\_\_.

10. (AMENDED) A corn plant with all of the physiological and morphological characteristics of corn inbred RBO1, wherein said corn plant is produced by a tissue culture processing obtaining the corn plant of claim 5 as the starting material for said process.

A3  
33. (AMENDED) The corn plant of claim 5, further comprising a single gene conversion where the gene confers a characteristic selected from the group consisting of: male sterility, herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease and corn endosperm quality.

34. (NEW) A hybrid corn seed wherein at least fifty percent of its genetic material originates from the pollen of claim 3.

35. (NEW) A hybrid corn seed wherein at least fifty percent of its genetic material originates from the ovule of claim 4.

A4  
36. (NEW) A method of producing a transgenic corn plant comprising transforming the corn plant of claim 2 with a transgene wherein the transgene confers a characteristic selected from the group consisting of : herbicide resistance, insect resistance, resistance

to bacterial disease, resistance to fungal disease, resistance to viral disease, male sterility and corn endosperm with improved nutritional quality.

37. (NEW) A transgenic corn plant produced by the method of claim 36.

38. (NEW) A method of producing an herbicide resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers herbicide resistance.

39. (NEW) An herbicide resistant corn plant produced by the method of claim 38.

40. (NEW) A method of producing an insect resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers insect resistance.

41. (NEW) An insect resistant corn plant produced by the method of claim 40.

42. (NEW) A method of producing a disease resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers disease resistance.

43. (NEW) A disease resistant corn plant produced by the method of claim 42.

44. (NEW) A method of producing a corn plant with decreased phytate content comprising transforming the corn plant of claim 2 with a transgene encoding phytase.

45. (NEW) A corn plant with decreased phytate content, produced by the method of claim 44.

46. (NEW) A method of producing a corn plant with modified fatty acid or carbohydrate metabolism comprising transforming the corn plant of claim 2 with one or more transgenes encoding a protein selected from the group consisting of stearyl-ACP desaturase, fructosyltransferase, levansucrase, alphaamylase, invertase and starch branching enzyme.

47. (NEW) A corn plant produced by the method of claim 46.

48. (NEW) A hybrid corn seed designated RBO1\*LH185 having inbred line RBO1 as a parental line, representative seed having been deposited under ATCC Accession No. \_\_\_\_\_ and inbred line LH185, representative seed having been deposited under ATCC Accession No. \_\_\_\_\_.

A 4  
cont

R4  
cont

49. (NEW) A hybrid corn seed designated RBO1\*LH287 having inbred line RBO1 as a parental line, representative seed having been deposited under ATCC Accession No. \_\_\_\_\_ and inbred line LH287, representative seed having been deposited under ATCC Accession No. \_\_\_\_\_.